

Orion Motor Tech XF-180

OMTech XF-180 Fume Extractor Instruction Manual

Model: XF-180

[Introduction](#) [Safety Information](#) [Product Components](#) [Setup Guide](#) [Operating Instructions](#) [Filter](#)
[System](#) [Maintenance](#) [Troubleshooting](#) [Technical Specifications](#) [Warranty and Support](#)

1. INTRODUCTION

This instruction manual provides essential information for the safe and efficient operation, setup, and maintenance of your OMTech XF-180 Fume Extractor. Please read this manual thoroughly before using the product and retain it for future reference.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the unit:

- Ensure the unit is placed on a stable, level surface.
- Do not block the air inlet or outlet during operation.
- Connect the unit to a grounded power outlet with the correct voltage.
- Do not operate the unit in wet conditions or with wet hands.
- Regularly inspect power cords and plugs for damage.
- Turn off and unplug the unit before performing any maintenance or filter replacement.
- Keep children and unauthorized personnel away from the operating unit.
- Use only genuine replacement filters for optimal performance and safety.

3. PRODUCT COMPONENTS

Familiarize yourself with the main parts of your OMTech XF-180 Fume Extractor:

PRODUCT DETAILS



This diagram illustrates the main parts of the fume extractor, including the 360° A4 Extraction Hood, Extraction Tube, Air Inlet, Metal Latch, Control Panel, and Lockable Caster Wheels.

- **360° A4 Extraction Hood:** Collects fumes and smoke from the work area.
- **Extraction Tube:** Flexible hose connecting the hood to the main unit.
- **Air Inlet:** Point where air enters the filtration system.
- **Metal Latch:** Secures the top cover for filter access.
- **Control Panel:** Contains power and fan speed controls.
- **Lockable Caster Wheels:** Allow for easy movement and secure positioning of the unit.

4. SETUP GUIDE

Follow these steps to set up your fume extractor:

1. **Unpack:** Carefully remove all components from the packaging.
2. **Position:** Place the main unit on a stable, level surface near your work area. Ensure adequate space around the unit for proper airflow.

3. **Attach Extraction Tube:** Securely connect the flexible extraction tube to the air inlet on the main unit and the 360° A4 Extraction Hood. Ensure all connections are tight to prevent air leakage.
4. **Adjust Hood:** Position the extraction hood directly over the source of fumes or smoke. The flexible tube allows for precise positioning.
5. **Lock Wheels:** Engage the locks on the caster wheels to prevent the unit from moving during operation.
6. **Power Connection:** Plug the power cord into a grounded electrical outlet.

5. OPERATING INSTRUCTIONS

To operate your OMTech XF-180 Fume Extractor:



The control panel features a power button and flow indicator for easy operation.

1. **Power On:** Press the power button on the control panel to turn on the unit. The indicator light will illuminate.
2. **Adjust Flow:** If available, use the 'FLOW+' button or similar control on the panel to adjust the fan speed or airflow intensity as needed for your application.
3. **Position Hood:** Ensure the extraction hood is positioned optimally to capture fumes and smoke effectively.

4. **Monitor Performance:** Observe the airflow and ensure fumes are being drawn into the hood.
5. **Power Off:** After use, press the power button again to turn off the unit. Unplug the power cord from the outlet when not in use for extended periods.

6. 3-LAYER FILTER SYSTEM

The OMTech XF-180 utilizes a robust three-layer filtration system to ensure effective air purification:



The fume extractor utilizes a three-layer filtration system: Layer 1 is a Nylon Primary Filter (PM50) with a 7-30 day replacement cycle. Layer 2 is a HEPA H11 Filter (PM0.5) with a 3-6 month replacement cycle. Layer 3 is an Activated Carbon Filter designed to trap harmful gases, with a 6-12 month replacement cycle.

- **Layer 1: Nylon Primary Filter (PM50)**
Captures larger dust particles and debris. Recommended replacement cycle: 7-30 days, depending on usage.
- **Layer 2: HEPA H11 Filter (PM0.5)**
Filters out fine particulate matter down to 0.5 microns with high efficiency. Recommended replacement cycle: 3-6 months.
- **Layer 3: Activated Carbon Filter**

Absorbs harmful gases, odors, and volatile organic compounds (VOCs). Recommended replacement cycle: 6-12 months.

Regularly check and replace filters according to the recommended cycles to maintain optimal performance and air quality.

7. MAINTENANCE

Proper maintenance ensures the longevity and efficiency of your fume extractor.

7.1 Filter Replacement

1. **Power Off and Unplug:** Always turn off the unit and disconnect it from the power source before attempting any maintenance.
2. **Open Unit:** Release the metal latches and carefully lift the top cover of the unit to access the filter compartment.
3. **Remove Old Filters:** Carefully remove the used filters, starting with the top layer (Nylon Primary Filter). Dispose of used filters responsibly.
4. **Install New Filters:** Insert new filters in the correct order: Activated Carbon at the bottom, followed by the HEPA H11 filter, and finally the Nylon Primary Filter on top. Ensure they are seated correctly.
5. **Close Unit:** Replace the top cover and secure the metal latches.
6. **Test:** Plug in the unit and power it on to ensure proper operation.

7.2 General Cleaning

- Wipe the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Periodically check the extraction tube and hood for any blockages or debris and clean as necessary.

8. TROUBLESHOOTING

If you encounter issues with your fume extractor, refer to the following common problems and solutions:

- **Unit does not power on:**
Check if the power cord is securely plugged into a working outlet. Ensure the power button is pressed.
- **Weak airflow:**
Check if filters are clogged and require replacement. Ensure the extraction tube and hood are free from obstructions. Verify that the fan speed is set appropriately.
- **Unusual noise:**
Ensure the unit is on a stable surface. Check for any loose components or foreign objects inside the unit.
- **Fumes not effectively removed:**
Reposition the extraction hood closer to the fume source. Check filter condition and replace if necessary. Ensure there are no air leaks in the tube connections.

If problems persist, contact customer support for assistance.

9. TECHNICAL SPECIFICATIONS

Below are the technical specifications for the OMTech XF-180 Fume Extractor:



PRODUCT SPECIFICATIONS

Power Consumption	80W
Input Power	110V/60Hz
Tube Diameter	2.6 in. (6.5 cm)
Tube Length	4 ft. (1.2 m)
Filter Material	Nylon, Polypropylene, Activated Carbon
Max. Air Flow	106 cfm (180 m³/h)
Rotational Speed	5800 rpm
Max. Noise Level	55 dB
Negative Pressure	0.3 psi (2 kPa)
Dimensions	11×11×17 in. (28×28×43 cm)
Net Weight	19.8 lb. (9 kg)
Free Gifts	4 × Replacement Filters 1 × 2.6" to 4" Adapter

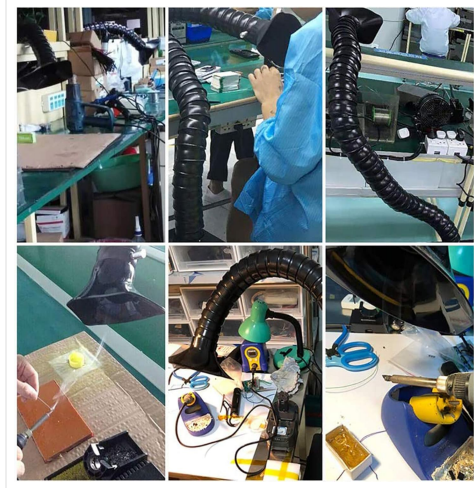
This image provides detailed technical specifications including power consumption, input power, tube diameter, tube length, filter material, max. air flow, rotational speed, max. noise level, negative pressure, dimensions, and net weight.

Specification	Value
Power Consumption	80W
Input Power	110V/60Hz
Tube Diameter	2.6 in. (6.5 cm)
Tube Length	4 ft. (1.2 m)
Filter Material	Nylon, Polypropylene, Activated Carbon
Max. Air Flow	106 cfm (180 m ³ /h)
Rotational Speed	5800 rpm
Max. Noise Level	55 dB
Negative Pressure	0.3 psi (2 kPa)

Specification	Value
Dimensions (LxWxH)	11 x 11 x 17 in. (28 x 28 x 43 cm)
Net Weight	19.8 lb. (9 kg)

10. WARRANTY AND SUPPORT

OMTech is committed to providing excellent customer service and support for your product.



OMTech provides 24/7 customer service, a 1-year warranty, and lifetime technical support for the product.

- **1-Year Warranty:** Your OMTech XF-180 Fume Extractor is covered by a 1-year warranty from the date of purchase, protecting against manufacturing defects.
- **24/7 Customer Service:** Our dedicated customer service team is available around the clock to assist you with any inquiries or issues.
- **Lifetime Technical Support:** Benefit from lifetime technical support to ensure your product continues to operate effectively.

For warranty claims, technical assistance, or general inquiries, please refer to the contact information provided with your product or visit the official Orion Motor Tech website.